PATENT COOPERATION TREATY

TORONTO .

INTERNATIONAL SEARCH REPORT (PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file referen	FOR FURTHER ACTION	see Form PCT/ISA/220 as well as, where applicable, item 5 below
International application No. PCT/CA2004/0021	International filing date (data 13 December 2004 (13-1	
Applicant THE UNIVERSITY. OF	MANITOBA ET AL	
This international search report Article 18. A copy is being tran	has been prepared by this International S smitted to the International Bureau.	Searching Authority and is transmitted to the applicant according to
This international search report	consists of a total of 4 sheets.	
[X] It is also accompani	ied by a copy of each prior art document	cited in this report.
1. Basis of the report		
With regard to the langua it was filed, unless otherw	ge, the international search was carried vise indicated under this item.	out on the basis of the international application in the language in which
	ational search was carried out on the basing Rule $23.1(b)$).	is of a translation of the international application furnished to this
b. [] With regard to any r	ucleotide and/or amino acid sequence	disclosed in the international application, see Box No. I.
2. [X] Certain claims wer	e found unsearchable (see Box No. II).	
3. [] Unity of invention i	s lacking (see Box No. III).	
4. With regard to the title,		
[] the text is approved	as submitted by the applicant.	
	ablished by this Authority to read as foll	
Methods and compo	unds for modulating triglyceride and VI	LDL secretion.
5. With regard to the abstra	et,	
[X] the text is approved	as submitted by the applicant.	:
[] the text has been est	ablished, according to Rule 38.2(b), by t	this Authority as it appears in Box No. IV. The applicant
may, within one mor	nth from the date of mailing of this intern	national search report, submit comments to this Authority.
6. With regard to the drawin	igs.	
a. the figure of the dra	wings to be published with the abstract	is Figure No.
[] as suggeste	d by the applicant.	
[] as selected	by this authority, because the applicant	failed to suggest a figure.
[] as selected	by this Authority, because this figure be	etter characterizes the invention.
b. [X] none of the	figures is to be published with the abstr	ract.

INTERNATIONAL SEARCH REPORT

International application No. PCT/CA2004/002119

Box No. II	Observations where certain claims were found unsearchable (Continuation of item 2 of the first sneet)
This internation reasons:	nal search report has not been established in respect of certain claims under Article 17(2)(a) for the following
1. [X] Claim	Nos.: 1, 2, 5, 6 and 30
	se they relate to subject matter not required to be searched by this Authority, namely:
is not	rk: Although claims 1, 2, 5, 6 and 30 are directed to a method for treatment of the human or animal body, which the Authority required to search under Rule 39.1(iv) of the PCT, the search has been carried out and based on the alleged effects of the ositions.
2. [] Claim	Nos. :
becau	se they relate to parts of the international application that do not comply with the prescribed requirements to such an extent o meaningful international search can be carried out, specifically:
	Nos.: se they are dependant claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box No. III	Observations where unity of invention is lacking (Continuation of item 3 of first sheet)
This Internationa	I Searching Authority found multiple inventions in this international application, as follows:
	required additional search fees were timely paid by the applicant, this international search report covers all
•	searchable claims could be searched without effort justifying an additional fee, this Authority did not invite ent of any additional fee.
3. [] As on	ly some of the required additional search fees were timely paid by the applicant, this international search report
covers	s only those claims for which fees were paid, specifically claim Nos. :
• •	quired additional search fees were timely paid by the applicant. Consequently, this international search report is sted to the invention first mentioned in the claims; it is covered by claim Nos.:
Re	mark on Protest [] The additional search fees were accompanied by the applicant's protest.
	[] No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

International application No. PCT/CA2004/002119

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 A61K 38/48, G01N 33/92, C12Q 1/02, A61K 38/17, A61K 45/00, A61P 3/06

According to International Patent Classification (IPC) or to:both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Documentation searched bther than minimum documentation to the extent that such documents are included in the fields searched IPC 7 A61K 38/48, G01N 33/92, C12Q 1/02, A61K 38/17, A61K 45/00, A61P 3/06

Electronic database(s) consulted during the international search (name of database(s) and, where practicable, search terms used)
Epodoc, STN, Canadian Patent Database, Medline. Keywords: Map1LC3, GABARAP, GATE16, Pl'3 kinase, autophagocytosis, VLDL, triglyceride, apolipoprotein, apoB, wortmannin, rapamycin, oleate, EPA.

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No(s).
x .	WO 03/066086 DEVELOGEN AKTIENGESELLSCHAFT FUR ENTWICK- LUNGBIOLOGISCHE FORCHUNG (14.08.2003)	1-8, 28-30
Y	whole document. In particular, claims 1, 13, 20-25.	1-8, 28-30
х	MORRISETT, J.D. et al., Effects of sirolimus on plasma lipids, lipoprotein levels, and fatty acid metabolism in renal transplant patients. Journal of Lipid Research (2002) Vol.43, pp1170-1180	1-8, 28-30
Y	whole document.	1-8, 28-30
x	FISHER, W.R., et al., Apolipoprotein B metabolism in hypertriglyceridemic diabetic patients administered either a fish oil- or vegetable oil-enriched diet. Journal of Lipid Research (1998) Vol.39, pp.388-401.	1-8, 28-30
Y	whole document.	1-8, 28-30
Y	FISHER, E.A. et al., The Triple Treat to Nascent Apolipoprotein B. Journal of Biological Chemistry (2001) Vol.276, No.30, pp.27855-27863 whole document.	1-8, 28-30

	whole document.			
[]	Further documents are listed in the continuation of Box C.	[X] See patent family annex.		
Special categories of cited documents: A document defining the general state of the art which is not considered to be of particular relevance E earlier application or patent but published on or after the international filing date		"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention		
		"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone		
"L"	document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art		
"P"	document referring to an oral disclosure, use, exhibition or other means document published prior to the international filing date but later than the priority date claimed	"&" document member of the same patent family		
Date of the actual completion of the international search		Date of mailing of the international search report		
18 April 2005 (18-04-2005)		03 May 2005 (03-05-2005)		
Name and mailing address of the ISA/CA Canadian Intellectual Property Office Place du Portage I, C114 - 1st Floor, Box PCT 50 Victoria Street Gatineau, Quebec K1A 0C9 Facsimile No.: 001(819)953-2476		Authorized officer André Pilon (819) 997-2996		

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No. PCT/CA2004/002119

•	Information on patent family members			PC1/CA2004/002119
Patent Document Cited in Search Report	Publication Date	Patent Family Member(s)	Publication Date	
vO03066086	14-08-2003	AU2003206854 A1 AU2003226973 A1 EP1471934 A2 WO03066086 A2 WO03066087 A2	02-09-2003 02-09-2003 03-11-2004 14-08-2003 14-08-2003	!
				
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